

IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the Application are reproduced below.

1. (Currently amended) A device for interworking asynchronous transfer mode cells, comprising:

a transmission convergence sublayer operable to receive one or more traffic ~~carrying asynchronous transfer mode cells~~ streams, the transmission convergence sublayer being operable to identify each a selected one of the one or more traffic streams carrying asynchronous transfer mode ~~cell~~ received cells; and

an encapsulation unit operable to receive the selected traffic stream carrying the asynchronous transfer mode cells identified by the transmission convergence sublayer, the encapsulation unit being operable to encapsulate ~~each identified~~ the traffic stream carrying the asynchronous transfer mode ~~cell~~ cells into an encapsulation encapsulated frame having a protocol format readable by a serial communications controller that receives the encapsulated frame.

2. (Currently amended) The device of Claim 1, further comprising:

a framer unit operable to receive the traffic streams from a trunk line, the framer unit being operable to provide the traffic streams to the transmission convergence sublayer.

3. (Currently amended) The device of Claim 2, further comprising:

a controller unit operable to receive one or more of the traffic streams from the framer unit, the controller unit being further operable to ~~provide the traffic~~ communicate data from ~~one of the~~ framer unit and the encapsulation unit for transfer to the serial communications ~~unit controller~~.

4. (Currently amended) The device of Claim 3, wherein the controller unit is operable to select the traffic data from the framer unit ~~according to the traffic not being carried by~~ and the encapsulation unit to be propagated using respective links based on whether or not the data is carrying asynchronous transfer mode cells.

5. (Currently amended) The device of Claim 4, wherein the ~~traffic is carried by~~
data includes one or more packets associated with a selected one of a frame relay packets
protocol, a point to point protocol (PPP), and a high level data link control (HDLC) protocol.

6. (Currently amended) The device of Claim 1, wherein the transmission
convergence sublayer is operable to identify and to discard asynchronous transfer mode null
cells without a associated with a asynchronous transfer mode traffic carrying that does not
include a payload.

7. (Currently amended) The device of Claim 1, wherein the transmission
convergence sublayer is operable to ~~remove a perform~~ header error correction ~~byte from each~~
~~received traffic carrying~~ for the selected asynchronous transfer mode ~~cell~~ stream prior to
transfer communicating the selected stream to the encapsulation unit.

8. (Currently amended) The device of Claim 1, wherein the transmission
convergence sublayer is operable to perform a header error correction and checksum function
functions, the transmission convergence sublayer operable and to discard one or more of the
asynchronous transfer mode cells with header error correction or checksum failures.

9. (Currently amended) The device of Claim 1, wherein the ~~encapsulation~~
encapsulated frames are frame is transferred to the serial communication controller over a
time division multiplexed communication link.

10. (Original) The device of Claim 1, wherein the transmission convergence
sublayer and the encapsulation unit are operable to receive programming commands to
change a communication capability of the device.

11. (Currently amended) A method for interworking asynchronous transfer mode cells, comprising:

receiving ~~asynchronous transfer mode cells~~ one or more traffic streams;

identifying a selected one of the traffic streams as including one or more asynchronous transfer mode cells carrying telecommunications traffic;

encapsulating identified one or more of the asynchronous transfer mode cells in into an encapsulated frames frame having a protocol format readable by a serial communications controller.

12. (Currently amended) The method of Claim 11, further comprising:

determining whether or not the received telecommunications traffic is received in includes one or more of the asynchronous transfer mode cells; and

providing one or more of the telecommunications traffic streams that do not include one or more of the asynchronous transfer mode cells directly to the serial communications controller in response to the telecommunications traffic not being carried in asynchronous transfer mode cells.

13. (Currently amended) The method of Claim 12 11, wherein a selected one of the streams includes the telecommunications traffic is carried in frame relay packets.

14. (Currently amended) The method of Claim 11, further comprising:

discarding one or more of the asynchronous transfer mode cells that do not carry telecommunications traffic a payload.

15. (Currently amended) The method of Claim 11, further comprising:

removing performing a header error correction function byte from each for one or more of the asynchronous transfer mode ~~cell~~ cells received.

16. (Currently amended) The method of Claim 11, further comprising:

performing a header error correction and checksum process functions for on each received one or more of the asynchronous transfer mode ~~cell~~ cells.

17. (Currently amended) The method of Claim 16, further comprising:
discarding one or more of the asynchronous transfer mode cells that fail the header
error correction or checksum ~~process~~ functions.

18. (Original) The method of Claim 11, further comprising:
receiving programming commands in order to change a communication capability
according to a desired protocol format for the communications controller.

19. (Original) The method of Claim 18, wherein the desired protocol format is a
high level data link control protocol.

20. (Currently amended) A device for interworking asynchronous transfer mode
cells, comprising:

means for receiving ~~asynchronous transfer mode cells~~ one or more traffic streams;

means for identifying a selected one of the traffic streams as including one or more
asynchronous transfer mode cells carrying telecommunications traffic; and

means for encapsulating ~~identified~~ one ore more of the asynchronous transfer mode
cells in into an encapsulated ~~frames~~ frame having a protocol format readable by a serial
communications controller.